



Radio-based two-way lone worker & staff protection call system

The *STAFF ALERTER* SA1000 helps to protect on-site staff and lone workers from abuse, violence or other emergencies. The system is designed for simplicity of installation (no wires), it is easy to operate and provides truly accurate staff location. It does this via two-way wireless alarms with location information.

This system provides staff with a means by which they can easily call for assistance. Other users are informed who needs help and where they are. As the system is two-way, users then accept or reject the message so all users are reassured quickly that assistance is on its way. Accurate location information means that users can be found quickly and can reduce the risk of any incident escalating.

The configurable man-down alarm can be set to require users to acknowledge an automatically generated call every 10-30 minutes. Alternatively a tilt switch can raise an alarm if the device is on its side for more than a preset period. The SA1000 monitors all devices continuously for status and battery levels and it logs alarms and response times of a call.



Repeater

The repeaters automatically form the backbone of the mesh radio network, relaying messages to and from the hub. The network's physical layout is determined by the placing of repeaters, which may extend across floors and buildings. Repeaters are battery powered and do not need any wires, making installation very quick and low cost. Each repeater provides a location signal for accurate location determination for alarm signals and also for tracking. A waterproof and solar powered version is available to extend coverage outside.



Call Fob

The call fob allows an assistance call to be generated either by the user pressing a button, or automatically by the dead-man or man-down features. Accurate location information is obtained from nearby repeaters.

Call Button Repeater

The device operates as a standard repeater but also has a help button (or pull cord). This can be installed in locations to provide a fixed help point whilst forming part of the radio backbone of the system.



Snatch Cord Pager

The pager is multi-functional, displaying received messages with acknowledgement, plus the ability to generate an alarm from the user, dead-man or man-down features. The pager display shows alarms from other pagers and call fobs. This allows the user to accept the alarm and signal back to the call fob or pager user, alerting them that assistance is on its way. By pulling the cord off the pager an alarm condition is instantly signalled.



Hub

The hub is the system's central control unit. It displays assistance call messages, showing the calling user and location. Device configuration is stored on the hub and can be changed using a PC running web browser software. Statistics and logs are collected and stored which can be viewed in the same way. Additional web browser functions include creation of pager messages, allowing messages to be sent to an individual or group of pagers. Also, location display allows call fob or pager users to be located. The *STAFF ALERTER* system may be extended using additional slave hubs for large site applications.

Technical specification

Frequency:	2.4 GHz-16 channels
Radio Power:	10 mW
Structure:	Self-configuring/repairing mesh for range and easy expansion
Power:	All devices are battery powered (except Hub - DC power and internal backup batteries)

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